

**PUMP STATION DETAILS
50HP OR SMALLER PUMP STATION
FOR
BRUNSWICK COUNTY
NORTH CAROLINA**

1 OF 4

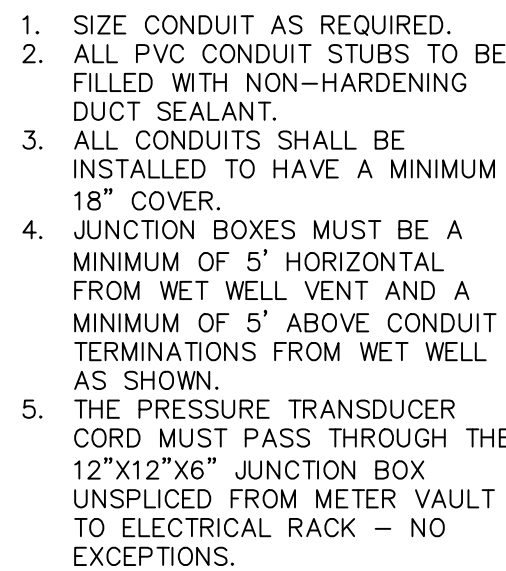
A	WET WELL
B	VALVE VAULT - 6'X6' MIN. (SEE NOTE 10)
C	METERING VAULT - 6'X6' MIN. (SEE NOTE 11)
D	CONTROL PANEL (SEE DETAIL SHEET 3)
E	GENERATOR PAD AND STANDBY GENERATOR
F	AREA LIGHT ON POLE
G	ANTENNA PAD (SEE NOTE 9)
H	ODOR CONTROL PAD (SEE NOTE 13)
I	5' RECEIVING MANHOLE
J	EMERGENCY PUMP OUT
K	#57 STONE BASE (SEE DETAIL THIS SHEET)
L	INFLUENT SANITARY SEWER LINE
M	APPROVED BACKFLOW PREVENTION DEVICE
N	6" VENT
O	JUNCTION BOX RACK ASSEMBLY (SEE DETAIL)
P	$\frac{3}{4}$ " IRRIGATION METER
Q	1" WATER SERVICE TO ODOR CONTROL UNIT
R	1" WATER SERVICE TO YARD HYDRANT
S	4" FREEZE-PROOF YARD HYDRANT WITH 2" REDUCER
T	VENT PIPE TO ODOR CONTROL UNIT (SEE NOTE 13)
U	16' ALL-WEATHER GRAVEL DRIVE
V	CHAIN LINK FENCE (SEE DETAIL)
W	DOUBLE SWING GATES 2 @ 7', TOTAL OPENING 14' (SEE INSET)



1. WET WELL INTERIOR TO RECEIVE MIN 15 DRY MILS RAVEN 405 HIGHS SOLIDS EPOXY OR APPROVED EQUAL.
2. WET WELL VENT OUTLET TO HAVE ODORHOOG CHARCOAL FILTER OR APPROVED EQUAL.
3. THE PUMP STATION SITE SHALL BE A MINIMUM OF 50 FEET BY 50 FEET. THE PLAN HEREIN SHOWS A RECOMMENDED 20 FOOT BUFFER FROM THE PROPERTY LINE TO THE FENCED AREA. SEE APPLICABLE JURISDICTION'S ZONING ORDINANCE FOR REQUIRED BUFFER.
4. THE PUMP STATION SITE SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE WET WELL. NO STORM DRAINAGE SHALL ENTER PUMP STATION SITE.
5. THE ACCESS ROAD SHALL BE #57 STONE AT A MINIMUM 8" THICK. THE ROAD SHALL BE A MINIMUM OF 16' WIDE.
6. THE ACCESS ROAD AND ENTIRE AREA WITHIN PUMP STATION FENCE SHALL BE A MINIMUM OF 2 FEET ABOVE THE 100 YEAR WATER SURFACE ELEVATION.
7. THE PUMP STATION SHALL HAVE STONE EXTENDING 18" PAST THE FENCE LINE IN ALL DIRECTIONS.
8. THE PUMP CONTROL PANEL MUST BE INSTALLED SUCH THAT IT FACES THE WET WELL.
9. SEE ROHDE ANTENNA DETAIL SHEET FOR ANTENNA DETAILS.
10. VALVE VAULT MINIMUM SIZE 66" X 6". ACTUAL REQUIRED MINIMUM SIZE DEPENDS ON ACTUAL DISCHARGE PIPING SIZES. ALL PIPING CONNECTIONS INSIDE VALVE VAULT SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPAIR.

11. IF REQUIRED, METERING VAULT MINIMUM SIZE IS 6'X6'. ACTUAL REQUIRED MINIMUM SIZE DEPENDS ON ACTUAL DISCHARGE PIPING SIZES. ALL PIPING CONNECTIONS INSIDE METERING VAULT SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPAIR. IF A METERING VAULT IS REQUIRED, A SEPARATE ELECTRICAL ENCLOSURE WILL BE REQUIRED ON THE ELECTRICAL RACK.
12. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ELECTRIC POWER COMPANY FOR PLACEMENT OF POWER COMPANY EQUIPMENT AND ANY REQUIRED CONCRETE SLABS, CONDUIT, ETC., NEEDED TO SERVE PUMP STATION. ELECTRIC COMPANY EQUIPMENT PLACEMENT SHALL NOT OBSTRUCT ACCESS DRIVE, GATES, GRAVITY SEWER MAIN, MANHOLES, DISCHARGE FORCE MAIN, OR ANY OTHER PUMP STATION EQUIPMENT.
13. ORDER CONTROL UNIT REQUIREMENTS (IF APPLICABLE):
 - A) CONCRETE SLAB - 10'L X 8'W X 3"D, 3000 PSI CONCRETE
 - B) INLET PIPE FROM WET WELL - 8" PVC MINIMUM.
 - C) CORE AND BOOT WET WELL FOR 8" VENT PIPE TO ORDER CONTROL UNIT.
 - D) SEWER WATER TECHNOLOGIES, ZABOGS MODEL 5000/6000. CONTACT BRUNSWICK COUNTY PUBLIC UTILITIES FOR DETAILS.
 - E) 3 PHASE POWER FROM PUMP CONTROL PANEL IS REQUIRED.
 - F) WET WELL VENTS ARE CAPPED IF ORDER CONTROL UNIT

14. IS UTILIZED.
15. ALL PUMP STATION WORK BY CONTRACTOR SHALL BE OF ADEQUATE QUALITY AND WORKMANSHIP FOR ACCEPTANCE BY BRUNSWICK COUNTY.
16. GENERATOR TO HAVE ENGINE EXHAUST SILENCER, WEATHER PROTECTIVE ENCLOSURE, AND SOUND ATTENUATION. REFER TO STANDBY EMERGENCY GENERATOR TECHNICAL SPECIFICATIONS FOR FURTHER DETAILS.
17. IF BRUNSWICK COUNTY REQUIRES AN ODOR CONTROL UNIT – ITS PLACEMENT IS SHOWN – A 2" MIN. SCH. 80 PVC CONDUIT WILL BE REQUIRED FROM THE ELECTRICAL RACK TO THE UNIT.
18. IF BRUNSWICK COUNTY REQUIRES A FLOW METER – METER VAULT IS SHOWN – A METERING ENCLOSURE WILL BE REQUIRED ON THE ELECTRICAL RACK. A 1" MIN. SCH. 80 PVC CONDUIT FROM THE METER VAULT TO THE METERING ENCLOSURE WILL ALSO BE REQUIRED.



BCPU PUMP STATION SIGN SPECIFICATIONS

MATERIAL: ANODIZED ALUMINUM, #5052 .080 THICK
SIZE: 18" WIDE X 24" HIGH WITH 1.5" RADIUS ON ALL CORNERS
BACKGROUND: 3-M ENGINEER GRADE SCOTCHLITE REFLECTIVE FILM
ALL COPY AND BORDER IS 3-M SCOTCHCAL VINYL FILM, SAPHIRE BLUE WITH THE EXCEPTION
OF THE PHONE NUMBER AND "AUTHORIZED PERSONNEL ONLY" WHICH ARE 3-M SCOTCHCAL
CARDINAL RED. THE ENTIRE SIGN IS OVERLAIN WITH FLEXCON EVL 40 VINYL #V-29,
LAMINATED AT 40 PSI. ALL LETTERING IS STANDARD BOLD CONDENSED.



PUMP STATION SIGN